PATENT

Docket No.: 77670/495

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTORS   :   Hiroyuke NAKANE et al.

SERIAL NO.   :   08/898,560

FILED   :   22 July 1997

FOR   :   FARNESYL DIPHOSPHATE SYNTHASE

GROUP ART UNIT :   1652   **Batch No. I55**

EXAMINER   :   E. Stole

ASSISTANT COMMISSIONER
  FOR PATENTS
Washington, D.C.   20231

SUBMISSION OF FORMAL DRAWINGS AND REQUEST FOR WAIVER OF PETITION UNDER 37 C.F.R. § 1.84(b)(1)

SIR:

   In accordance with the requirements contained in the Notice of Allowability mailed 1 September 1998 and the Notice of Draftsperson's Patent Drawing Review, submitted herewith are three (3) sheets of formal drawings (two sheets of drawings and one sheet of photograph) with the request that the requirement for a Petition to accept the photograph be waived in accordance with OG of 4 August 1998 (Interim Waiver of 37 C.F.R. 1.84(b)(1) and Advance Notice of Change to M.P.E.P. §608.02.

                               Respectfully submitted,

                               KENYON & KENYON

Dated: 24 September 1998
                               Judith L. Toffenetti
                               (Reg. No. 39,048)

1025 Connecticut Ave., N.W.
Washington, DC 20036
Tel: (202) 429-1776

171797\77670/495

Fig.1

REGION I   REGION II   REGION III
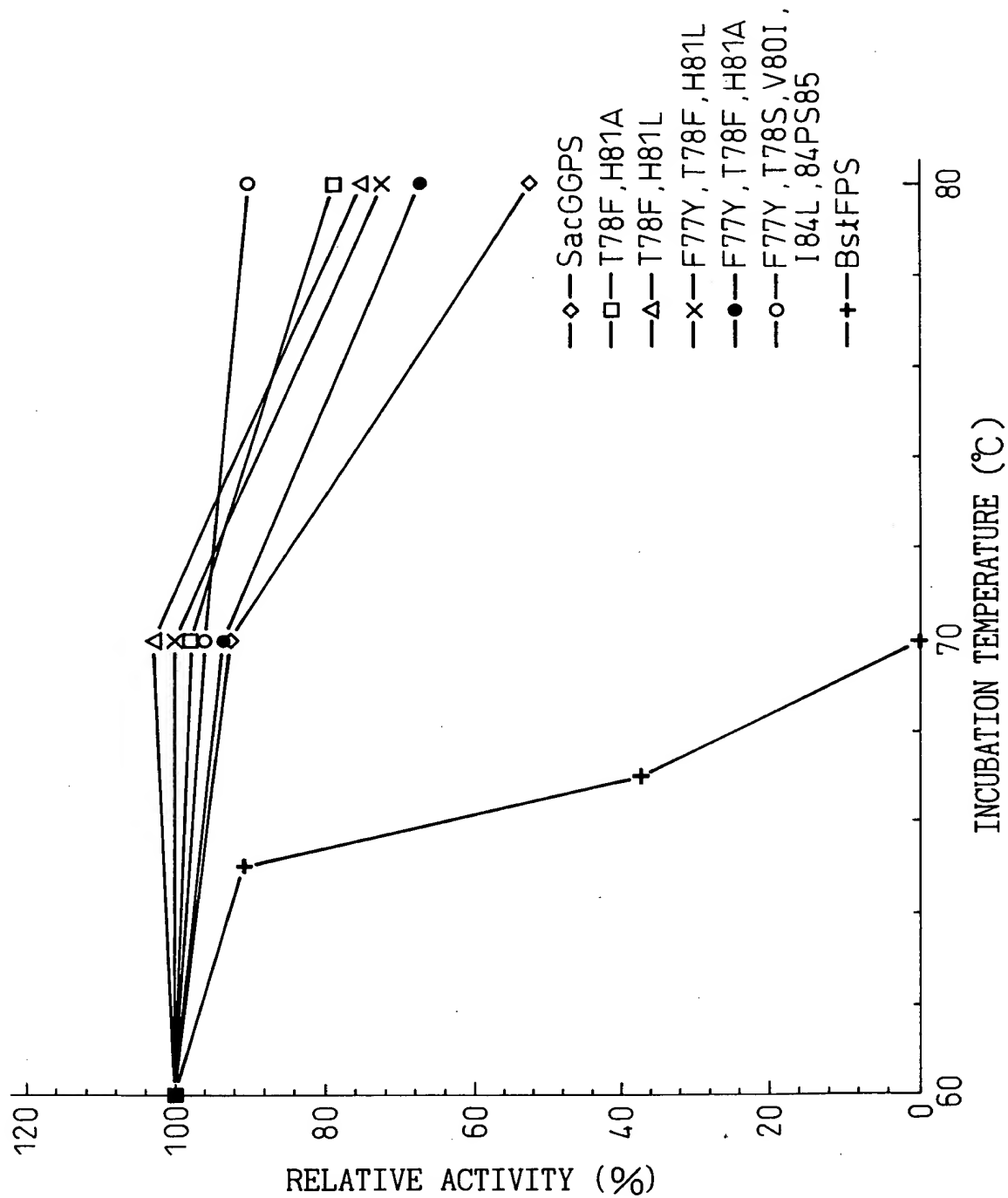
```
                   REGION I              REGION II                      REGION III
ATGERPYRS   116 GGKRVR      147 EMIHTMSLIHDDLPCMDNDDLRRG      238 GQVVD
LA15778.p   110 ·······     141 ·················             230 ·····
CAGERDIS.   118 ·······     149 ·················             238 ···A·
ATGGPSRP.    88 ·P··AP      119 ··V·AA········D·PV            211 ··Y··
GGPS.pep     43 ····L·       74 ·VL··FT·V·····I··Q·NI         160 ··A··
SPCRT.pep    64 ·A_·I·       95 ·L··CA··V·····F·DAEI          185 ··GWE
RCPHSYNG.   192 ·A_·I·      223 ·LM·CA··V····AF·A·I           313 ··AWE
EHCRTS.pe    54 ··:·I·       86 ·LT··A··ML···M··AE            175 ··FR·
MXCRTNODA   104 ··:·L·      136 ·LL··FL······VA·QAE           199 ··YL·
NCAL3.pep   197 ·_·DI·      226 _·L··A··LV···VE·SV            260 ··GM·
```

REGION IV   REGION V

```
                   REGION IV              REGION V
ATGERPYRS   265 KT       293 GLLFQVVDDIL_DVTKSSK_ELGKTAGKDLIADK
LA15778.p   255 ··       283 ··M·······V·············V···
CAGERDIS.   263 ·F       291 ·······_··_·E_··········VV··
ATGGPSRP.   230 ·F       256 ·M·Y·····TE·KK·YDGGAE·GMMEMAEEL·
GGPS.pep    185 ··       211 ·IA··I······GLTADEKE····PVFS·IREG·
SPCRT.pep   203 ··       227 ·EA··A··LR·ALCDAE_T····P··Q·E·HAR
RCPHSYNG.   331 ··       355 ·SA··IA··LK_·ALM·AE_AM··P··Q·IANER
EHCRTS.pe   199 ··       225 ·QA··LL··LRD·HPET···DRN··A_G·
MXCRTNODA   226 ··       247 ·AY·LR··L·GLFGD·NV__A··A·DG·FLQG·
NCAL3.pep   286 ··       272 ··I··IA·YHNLWNREYT__AN·GMCE··TEG·
```

Fig.2

—◇—SacGGPS

—□—T78F,H81A

—△—T78F,H81L

—✕—F77Y,T78F,H81L

—●—F77Y,T78F,H81A

—○—F77Y,T78S,V80I,
I84L,84PS85

—+—BstFPS

INCUBATION TEMPERATURE (°C)

RELATIVE ACTIVITY (%)

Fig.3